

WHAT IS CLAIMED IS:

- 1 1. A method for distorting a recording of projected images, the recording having a
2 frame frequency, the method comprising the steps of:
3 imposing an interference on the projected images at a frequency that renders the
4 interference imperceptible to a human viewer, wherein a difference between the
5 interference frequency and the recording frame frequency is perceptible to a human.
- 1 2. The method of claim 1 wherein the step of imposing an interference includes the
2 step of interrupting a projection of the projected images.
- 1 3. The method of claim 1 wherein the interference is characterized by a plurality of
2 parameters, comprising the further step of varying at least one of the parameters.
- 1 4. The method of claim 3 wherein the step of varying at least one of the parameters
2 includes the step of dynamically varying at least one of the parameters.
- 1 5. The method of claim 3 wherein the at least one of the parameters is selected from
2 the group comprising duty cycle, frequency, amplitude, presentation order and
3 wavelength.
- 1 6. The method of claim 1 comprising the further step of separating the projected
2 images into a plurality of colors, wherein the imposing step includes the further step of
3 modulating at least one of the plurality of colors.

1 7. The method of claim 6 wherein the step of modulating the at least one color
2 includes changing a time relationship of the at least one color with respect to at least one
3 other of the plurality of colors.

1 8. The method of claim 7 wherein the step of modulating the at least one color
2 includes blanking the at least one color for an interval.

1 9. The method of claim 1 wherein the interference comprises projected light.

1 10. A method for operating a motion picture projector, comprising the steps of:
2 determining a recording device frame frequency; and
3 blanking a projected image at a humanly imperceptible blanking frequency,
4 wherein a difference between the frame frequency and the blanking frequency is a
5 humanly perceptible frame frequency.

1 11. A projection system for distorting a recording of projected images, the recording
2 having a frame frequency, the system comprising:
3 an interfering element; and
4 a controller coupled to the interfering element, wherein the controller causes the
5 interfering element to impose a humanly imperceptible alteration on the projected images
6 and wherein a playback of a recording of the projected images displays humanly
7 perceptible alterations.

1 12. The system of claim 11 wherein the interfering element includes one selected
2 from the group comprising a shutter, a filter, a light valve and a lens.

1 13. The system of claim 11 wherein the controller is further operable to cause the
2 interfering element to vary a plurality of parameters, the interfering element including:
3 a separator responsive to image data and operable to separate the image data into
4 a plurality of colors; and
5 a color modulator responsive to the controller and operable to adjust at least one
6 of the plurality of parameters for at least one of the colors;
7 the system further comprising a combiner coupled to the interfering element and
8 operable to combine the image data for projection.

1 14. The system of claim 13 wherein the at least one of the parameters includes one
2 parameter selected from the group comprising duty cycle, frequency, amplitude,
3 brightness, intensity, presentation order and wavelength.

1 15. The system of claim 11 wherein the interfering element includes a light source
2 operable to project an image.

1 16. The system of claim 13 wherein the interfering element further includes:
2 a light source operable to provide a light strip;
3 a color separator operable to separate the light strip into colors light strips; and

4 a scanner for scanning the color light strips over a frame, wherein the color
5 modulator varies the parameters over the color light strips.

1 17. The system of claim 11 further comprising:

2 a white light source for providing white light; and

3 a detector for determining spatial entities for color modulation,

4 the interfering element including:

5 a color separator for color separating the white light and the spatial entities for
6 color modulation into component colors;

7 a time multiplexer for varying parameters of the component colors of the spatial
8 entities for color modulation;

9 a processor for defining an order of coarse bits and of fine bits for at least one of
10 the component colors of the spatial entities for color modulation;

11 a modulator for modulating the white light component colors and the component
12 colors of the spatial entities for color modulation, the modulator providing modulated
13 component colors; and

14 a combiner for combining the modulated component colors.

1 18. The system of claim 17 wherein the detector determines frame-linked spatial

2 entities, the separator operable to separate the frame-linked spatial entities into

3 component colors, and the modulator operable to modulate the component colors of the

4 frame-linked spatial entities.

1 20. The method of claim 3 wherein the imposing step includes the steps of:

2 scanning a white light strip;

3 separating the white light strip into color light strips;

4 separating spatial entities into component colors; and

5 modulating the component colors of the spatial entities over a color light strip.